

DERWENT- 2005-023265
ACC-NO:

DERWENT- 200503
WEEK:

COPYRIGHT 2008 DERWENT INFORMATION LTD

TITLE: Chewable tablet for elderly people and children, is obtained by compression molding of mixture containing medicine-containing granules and placebo granules

INVENTOR: MAMIYA M; MASAOKI A ; OHIRA A ; OKUDA Y

PATENT-ASSIGNEE: TOWA YAKUHIN KK[TOWAN]

PRIORITY-DATA: 2003JP-134208 (May 13, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP 2004339071 A	December 2, 2004	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2004339071A	N/A	2003JP-134208	May 13, 2003

INT-CL-
CURRENT:

TYPE	IPC DATE
CIPP	<u>A61 K 9/26</u> 20060101
CIPS	<u>A61 K 31/22</u> 20060101
CIPS	<u>A61 K 47/04</u> 20060101
CIPS	<u>A61 K 47/22</u> 20060101
CIPS	<u>A61 K 47/34</u> 20060101
CIPS	<u>A61 K 47/36</u> 20060101

ABSTRACTED-PUB-NO: JP 2004339071 A

BASIC-ABSTRACT:

NOVELTY - Chewable tablet with decreased bitterness is obtained by compression molding of mixture containing medicine-containing granules (MCG) and placebo granules. MCG is obtained by granulating mixture of bitter medicine and excipient with water-insoluble digestive liquor containing soluble film-forming polymer. Placebo granules are prepared by granulating saccharide or sugar alcohol with water-insoluble hydrophilic granulation component.

USE - As solid oral formulation such as tablet or granule for elderly people and children.

ADVANTAGE - The chewable tablet has excellent bioavailability, hardness, disintegrating property and dissolution property. The tablet effectively masks the bitterness of medicament and easy disintegrates in oral cavity.

EQUIVALENT-ABSTRACTS:

PHARMACEUTICALS

Preferred Ratios: The weight ratio of MCG and placebo granules is 1:1-1:5. The weight ratio of film-forming polymer with respect to MCG is 1:1-6:1. The ratio of film-forming polymer with respect to MCG is 10-50 weight%.

Preferred Composition: The placebo granules contain mannitol coated with starch, crospovidone, silicic acid anhydride microparticles and hydroxypropyl starch.

POLYMERS

Preferred Material: The film-forming polymer soluble with digestive liquor is a gastric soluble coating agent (preferably amino alkyl methacrylate copolymer or polyvinyl-acetal diethylamino acetate) or enteric soluble coating agent (preferably methacrylic acid copolymer).

Pravastatin sodium (in g) (27.5) and D-mannitol (310) were supplied to fluidized bed granulator, and coated with a coating liquid containing titanium oxide (12.5) dissolved in aminoalkyl methacrylate copolymer (50) and 70% ethanol (1300 ml). The obtained granules were dried, to obtain medicine-containing granules (MCG). D-mannitol (489) was coated with coating liquid containing crospovidone (21) and in water (520 ml), granulated and dried, to obtain granule-I. MCG (80), granule-I (170) and aspartame (3.5) were mixed in polyethylene bag and then mixed with magnesium stearate (2.5) and tabletted, to obtain tablets (each tablet having diameter of 9 mm and weight of 256 mg). The obtained tablet when evaluated had excellent hardness, disintegration property and had negligible bitterness.

TITLE- CHEW TABLE ELDERLY PEOPLE CHILD OBTAIN COMPRESS MOULD
TERMS: MIXTURE CONTAIN MEDICINE GRANULE

DERWENT-CLASS: A25 A97 C03

CPI-CODES: A12-V01; C04-C02B; C04-C03A; C04-C03B; C05-A01B; C05-B02C; C10-A07B; C10-C04A; C12-M11D; C12-M11M;

CHEMICAL- Chemical Indexing M1 *02* Fragmentation Code F011 F012 F423 H2 H211 H7
CODES: H713 H721 J5 J521 L9 L941 M210 M212 M273 M281 M320 M423 M424 M430

M510 M521 M530 M540 M740 M782 N104 R032 R038 Specific Compounds
RA002W Registry Numbers 91821

Chemical Indexing M1 *03* Fragmentation Code M423 M424 M430 M740
M782 N104 R032 R038 Specific Compounds R01863 Registry Numbers
107779

Chemical Indexing M1 *04* Fragmentation Code M417 M423 M424 M430
M740 M782 N104 R032 R038 Specific Compounds RA0121 Registry Numbers
184614

Chemical Indexing M1 *05* Fragmentation Code H100 H181 H7 H721 J0 J011
J171 J271 L640 M210 M213 M232 M262 M281 M311 M312 M313 M314 M315
M316 M320 M321 M331 M332 M333 M340 M342 M383 M391 M416 M423
M424 M430 M740 M782 N104 R032 R038 Markush Compounds 014618401

Chemical Indexing M2 *01* Fragmentation Code A111 A960 C710 G033 G034
G060 G670 H4 H403 H461 H482 H8 J0 J012 J1 J171 J2 J261 M210 M211
M214 M232 M240 M262 M281 M315 M321 M332 M344 M371 M391 M411
M424 M430 M510 M520 M530 M541 M630 M740 M782 N104 R032 R038
Specific Compounds RA0S9E Registry Numbers 104599

Chemical Indexing M2 *06* Fragmentation Code H4 H405 H484 H8 K0 L8
L816 L821 L833 M280 M315 M321 M332 M344 M383 M391 M416 M424 M430
M620 M740 M782 M800 N104 R032 R038 Specific Compounds R00290
R07423 Registry Numbers 129551 949

Chemical Indexing M2 *07* Fragmentation Code B114 B702 B713 B720 B832
C101 C108 C800 C802 C804 C805 C807 M411 M424 M430 M740 M782 N104
R032 R038 Specific Compounds RAE9JR Registry Numbers 901944

UNLINKED-DERWENT- ; 0290U ; 1863U
REGISTRY-NUMBERS:

ENHANCED-POLYMER- Polymer Index [1.1] 2004 ; G0384*R G0339 G0260 G0022 D01
INDEXING: D12 D10 D26 D51 D53 D58 D63 F41 F89 D11 F07*R; H0011*R;
P0088;

Polymer Index [1.2] 2004 ; D11 D10 F07*R; P1865*R D01;

Polymer Index [1.3] 2004 ; G0306 G0271 G0260 G0022 D01 D12
D10 D26 D51 D53 D58 D60 D84 F36 F35 R00460 10151;
H0011*R; P0088;

Polymer Index [1.4] 2004 ; Q9999 Q8037 Q7987; B9999 B3021
B3010; B9999 B4502 B4466; ND01; B9999 B3792 B3747; Q9999
Q7250;

Polymer Index [1.5] 2004 ; B9999 B3510*R B3372;

Polymer Index [2.1] 2004 ; D01 D11 D10 D23 D22 D31 D42 D50
D76 D86 F24 F29 F26 F34 H0293 P0599 G3623 R01863
107779; M9999 M2200;

Polymer Index [2.2] 2004 ; G0635 G0022 D01 D12 D10 D23 D22
D31 D41 D51 D53 D58 D75 D86 F71; H0000;

Polymer Index [2.3] 2004 ; Q9999 Q8037 Q7987; B9999 B3021
B3010; B9999 B4502 B4466; ND01; B9999 B3792 B3747; Q9999
Q7250;

Polymer Index [2.4] 2004 ; Q9999 Q7114*R; K9687 K9676;
K9712 K9676; K9610 K9483;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2005-007933